Side Emitting Horizontal Bend Neon - 24VDC
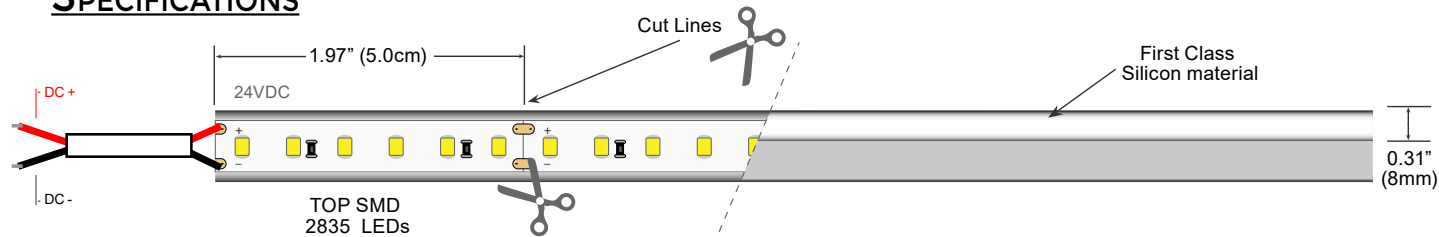## SKU: LN-DX-NE-XXH-FH-5

ECOLOCITY
LED LIGHTING SOLUTIONS

1092 Greg Street
Sparks, NV 89431
ECOLOCITYLED.COM
775-636-6060

SPECIFICATIONS

1.97" (5.0cm)
24VDC
Cut Lines
First Class Silicon material
DC +
DC -
TOP SMD 2835 LEDs
0.31" (8mm)

Product SKU : LN-DX-NE-XXH-FH-5
LED Size : 2835 SMD
LED Quantity : 6 LEDs per 1.97"
Input Power : 24VDC Constant Voltage
Watts : 3.51W per foot
Max Serial Connection : 30ft
Operating Temp : -4°~113°F
Beam Angle : 110°
Rating : IP67 Waterproof
Warranty Period : 2 Years
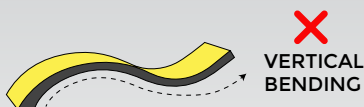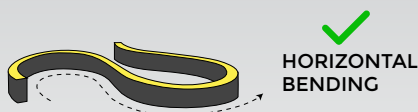
Input Power: 24VDC Constant Voltage

Power supply equation

$$X * 3.51 = Y$$

X = linear strip light footage
Y = minimum transformer wattage

PRECAUTIONS

✓ HORIZONTAL BENDING

✗ VERTICAL BENDING

Only Bend the Neon Strip in the manner that is intended to bend.

WARNING – This product should be installed, cut and connected only by a qualified professional.

4

NEVER cut, connect, or join wires while product is connected to a live power source.

24VDC Use 24VDC Input Only!

DO NOT bend or crease the strip in a manner that will damage the conductivity of the circuit board.

120VAC DO NOT use AC Input!

To extend the life of this product do not use in direct sunlight or environments over 113°F.

This product must be sealed properly with glue and end caps after cutting to retain IP67 waterproof rating.

DO NOT exceed 30ft serial connection! BE CERTAIN your 24VDC source and wire gauge is suffice for powered load.

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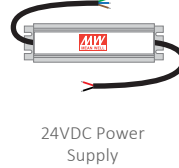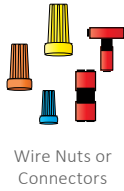Sparks, NV 89431, USA

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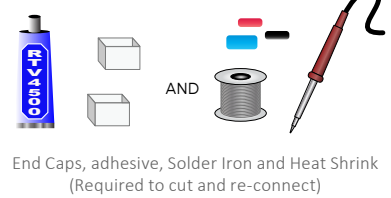
Side Emitting Horizontal Bend Neon - 24VDC
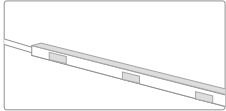
SKU: LN-DX-NE-XXH-FH-5

INSTALLATION

REQUIRED SUPPLIES

Mounting Clips, Screws and Power Drill/Driver

Stranded Wire and Wire Strippers

Wire Nuts or Connectors

24VDC Power Supply

OPTIONAL SUPPLIES

AND

End Caps, adhesive, Solder Iron and Heat Shrink (Required to cut and re-connect)
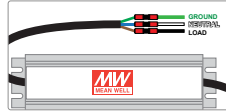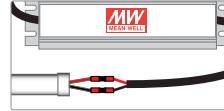
1.) Mount Neon Strip

Use the self tapping screws and mounting clips to mount the neon to the mounting surface. 1 clip per 1.64' is included with each 5m roll. Neon snaps into the clip to secure.

2.) Connect Transformer

GROUND
NEUTRAL
LOAD

WARNING – This step should be done by a qualified professional. Always disable AC power before connecting! Use wire nuts or connectors to secure your AC input to your 24V transformer.
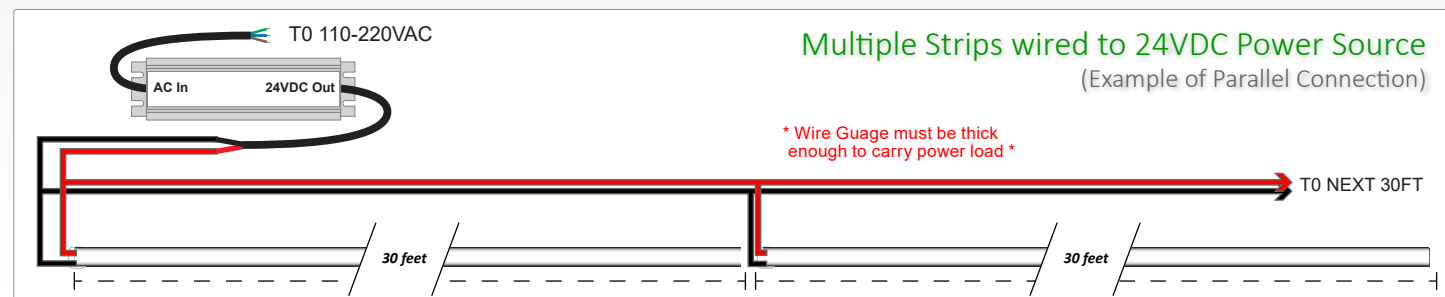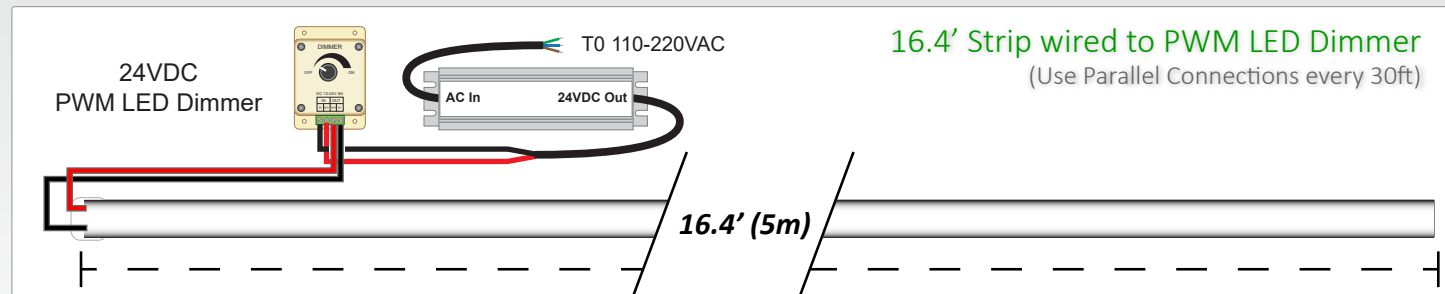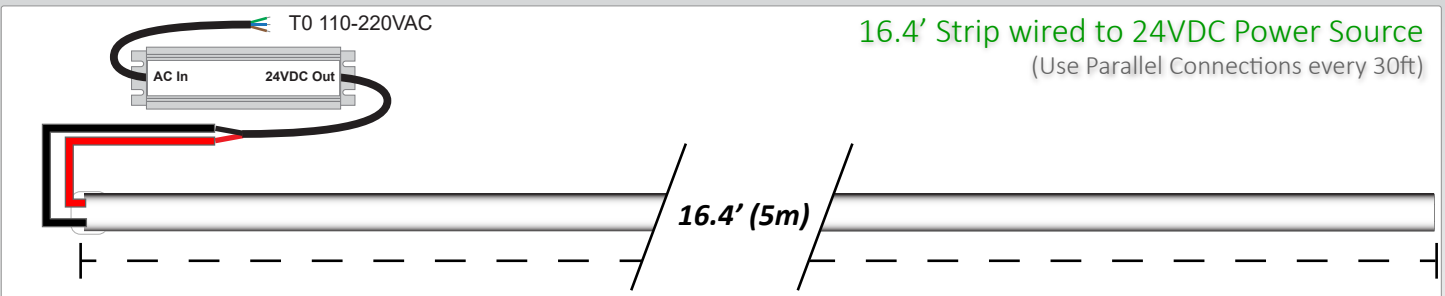
3.) Connect Neon Strip

Always be certain power is disabled before connecting! Use wire nuts, connectors, or solder and heat shrink to secure your 24V DC+ and DC- output wires to your LED Neon Strip.

4.) Power On Neon Strip

Once your wires are properly connected you can now apply 24VDC power to your LED Neon Strip.
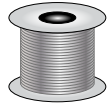
CONNECTION EXAMPLES: 3.51 Watts per foot

T0 110-220VAC

AC In   24VDC Out

16.4' Strip wired to 24VDC Power Source
(Use Parallel Connections every 30ft)

16.4' (5m)

24VDC PWM LED Dimmer

DIMMER
OFF   ON
DC 12-24V 8A

T0 110-220VAC

AC In   24VDC Out

16.4' Strip wired to PWM LED Dimmer
(Use Parallel Connections every 30ft)

16.4' (5m)

T0 110-220VAC

AC In   24VDC Out

Multiple Strips wired to 24VDC Power Source
(Example of Parallel Connection)

* Wire Guage must be thick enough to carry power load *

T0 NEXT 30FT

30 feet   *30 feet*

Side Emitting Horizontal Bend Neon - 24VDC

SKU: LN-DX-NE-XXH-FH-5

SOLDERING INSTRUCTION
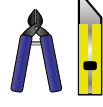
REQUIRED SUPPLIES

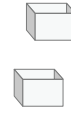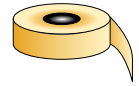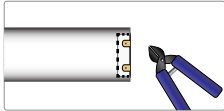| Rosin Core Electrical Solder	Electrical Soldering Iron (Preferably Temp Adjustable)	Stranded Wire and Wire Strippers	Razor Blade or Cutting Tool	Silicone Adhesive	Neon Light End Caps	Masking Tape

1.) Cut Waterproof Coating

Cut your neon light to length on the cut line only. Then use a cutting tool to expose the copper pads of strip light enough for soldering.
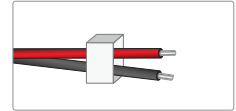
2.) Tin Strip Light Pads

Heat your soldering iron to 500-600°F. Use a piece of masking tape to secure your neon light then tin each copper pad with rosin core electrical solder.
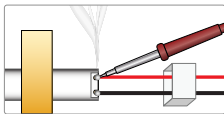
3.) Strip and Tin Wire

Strip your 2 conductor stranded wire roughly 1/8". Tin the exposed wires with rosin core solder.
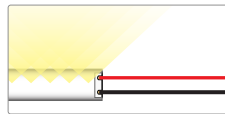
4.) Push Wires through Cap

Push your connection wires through the plastic end cap with wire holes. Be sure to face the end cap in the right direction.
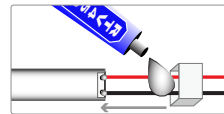
5.) Solder Wire to Neon

Mate your tinned wire to the copper pad with respective polarity. Red wire to DC+ (positive), Black wire to DC - (negative).
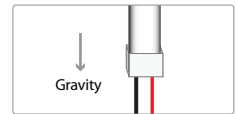
6.) Test Connection

Before permanently adhering your end cap to the neon light, it is a good idea to test your connection first.

7.) Glue End Cap

You can now glue on your end cap. We recommend using RTV 4500 Silicone type adhesive, fill the entire end cap and gum all commisures.

8.) Let Glue Set

Gravity

Our neon strip lights have a hollow inside. Be certain to hang the strip vertical so that the glue sets inside the mounting cap.
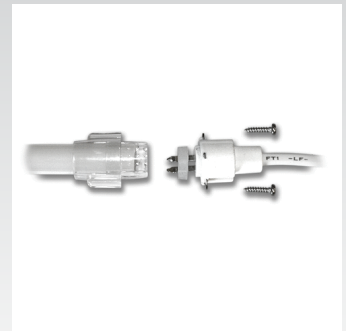
STRIP LIGHT ACCESSORIES:

Connection Wires

24VDC Power Supplies

PWM LED Dimmers

Neon Caps and Connectors

HELPFUL LINKS:

Connection Wires - *https://www.ecolocityled.com/category/led_connection_wire_products*

24VDC Power Supplies - *https://www.ecolocityled.com/category/led_power_supplies_24v*

PWM LED Dimmers - *https://www.ecolocityled.com/category/pwm_led_light_dimmer*

Neon Caps & Connectors - *https://www.ecolocityled.com/category/led-neon-flex-end-caps*

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